



SNMP Components for Satellites

This chapter describes the SNMP components for Cisco ASR 9000v Satellite and Cisco NCS 5001 Satellite on Cisco ASR 9000 Series Aggregation Services Routers.

Cisco ASR 9000v Satellite supports only the operation as satellite. It doesn't support the standalone operation. However, NCS5001 operates on both condition.



Note Migrating from Cisco IOS XR software 32-bits to 64-bits, with Cisco ASR 9000v Satellite in place, can lead to generate an alarm. This alarm indicates that the Satellite RP is Unknown. This is an expected behaviour.

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- [Example: Satellite NCS5001, on page 2](#)

Example: Satellite ASR9000v2

The following is an example about SNMP components for Satellite ASR9000v2 over Host ASR9000 on Cisco IOS XR software 32-bit version.

```
Router#show nv satellite status satellite 101

Satellite 101
-----
Status: Connected (Stable)
Type: asr9000v2
Displayed device name: Sat101
MAC address: 00a7.4294.cb70
IPv4 address: 10.0.101.1 (auto, VRF: **nVSatellite)
Serial Number: CAT2130Q1U2
Remote version: Compatible (latest version)
  ROMMON: 128.1 (Latest)
  FPGA: 1.13 (Latest)
  IOS: 713.100 (Latest)
Received candidate fabric ports:
  nVFabric-GigE0/0/42-43 (permanent)
  nVFabric-TenGigE0/0/44-47 (permanent)
Configured satellite fabric links:
  Bundle-Ether101
-----
Status: Satellite Ready
```

```

Remote ports: GigabitEthernet0/0/0-43
Discovered satellite fabric links:
  TenGigE0/3/1/1/2: Satellite Ready; No conflict
  TenGigE0/3/1/1/3: Satellite Ready; No conflict
  TenGigE0/3/0/1/4: Satellite Ready; No conflict
  TenGigE0/3/0/1/5: Satellite Ready; No conflict
Router#show snmp entity | include SAT101
entPhysicalIndex: 2016693723 entPhysicalName: fantray SAT101/FT0/SP
entPhysicalIndex: 2017773721 entPhysicalName: temperature SAT101/FT0/SP
entPhysicalIndex: 2019225442 entPhysicalName: speed SAT101/FT0/SP
entPhysicalIndex: 2021961264 entPhysicalName: slot SAT101/FT0
entPhysicalIndex: 2023826132 entPhysicalName: fan1 SAT101/FT0/SP
entPhysicalIndex: 2029010132 entPhysicalName: module SAT101/0/CPU0
entPhysicalIndex: 2030516525 entPhysicalName: power-module SAT101/PM0/SP
entPhysicalIndex: 2040603809 entPhysicalName: fan0 SAT101/FT0/SP
entPhysicalIndex: 2047094833 entPhysicalName: slot SAT101/0
entPhysicalIndex: 2048344757 entPhysicalName: speed SAT101/FT0/SP
entPhysicalIndex: 2050692183 entPhysicalName: speed SAT101/FT0/SP
entPhysicalIndex: 2057381390 entPhysicalName: module SAT101/FT0/SP
entPhysicalIndex: 2057382978 entPhysicalName: fan3 SAT101/FT0/SP
entPhysicalIndex: 2061039076 entPhysicalName: speed SAT101/FT0/SP
entPhysicalIndex: 2063961754 entPhysicalName: slot SAT101/PM0
entPhysicalIndex: 2074157383 entPhysicalName: fan2 SAT101/FT0/SP

```

Example: Satellite NCS5001

The following is an example about SNMP components for Satellite NCS5001 over Host ASR9000 on Cisco IOS XR software 32-bit version.

```

Router#show nv satellite status satellite 200
Thu Jun 15 19:32:51.613 UTC
Satellite 200
-----
Status: Connected (Stable)
Type: ncs5001
Displayed device name: Sat200
MAC address: 00bc.60eb.7ec5
IPv4 address: 10.22.1.2 (VRF: default)
Serial Number: FOC2234R1FA
Remote version: Compatible (newer version)
  IOFPGA: 0.18
  MB_MIFPGA: 0.17
  BIOS: 1.13
  XR: 7.5.2 (Available: 6.7.3)
Received candidate fabric ports:
  nVFabric-TenGigE0/0/38-39 (permanent)
  nVFabric-HundredGigE0/1/0-3 (permanent)
Configured satellite fabric links:
  TenGigE0/1/1/1
-----
Status: Satellite Ready
Remote ports: TenGigE0/0/0-37
Router#show snmp entity | include SAT200
Thu Jun 15 19:33:05.527 UTC
entPhysicalIndex: 2015810404 entPhysicalName: speed SAT200/FT0/SP
entPhysicalIndex: 2017529655 entPhysicalName: speed SAT200/FT1/SP
entPhysicalIndex: 2018813774 entPhysicalName: power-module SAT200/PM0/SP
entPhysicalIndex: 2019337904 entPhysicalName: slot SAT200/FT0
entPhysicalIndex: 2021973377 entPhysicalName: module SAT200/FT0/SP
entPhysicalIndex: 2021974997 entPhysicalName: fan3 SAT200/FT1/SP

```

```
entPhysicalIndex: 2022738448 entPhysicalName: speed SAT200/FT1/SP
entPhysicalIndex: 2023042907 entPhysicalName: fantray SAT200/FT0/SP
entPhysicalIndex: 2023415705 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2023417389 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2025270727 entPhysicalName: fan2 SAT200/FT0/SP
entPhysicalIndex: 2027108318 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2027109906 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2032103141 entPhysicalName: module SAT200/CPU0/SP
entPhysicalIndex: 2034178455 entPhysicalName: slot SAT200/0
entPhysicalIndex: 2034713362 entPhysicalName: module SAT200/0/CPU0
entPhysicalIndex: 2036528633 entPhysicalName: speed SAT200/FT1/SP
entPhysicalIndex: 2038751086 entPhysicalName: fan0 SAT200/FT1/SP
entPhysicalIndex: 2040193382 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2040195002 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2041105634 entPhysicalName: speed SAT200/FT0/SP
entPhysicalIndex: 2042048340 entPhysicalName: fan1 SAT200/FT0/SP
entPhysicalIndex: 2042586294 entPhysicalName: fantray SAT200/FT1/SP
entPhysicalIndex: 2043618971 entPhysicalName: slot SAT200/PM0
entPhysicalIndex: 2043882691 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2043884311 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2043885995 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2055527079 entPhysicalName: fan1 SAT200/FT1/SP
entPhysicalIndex: 2056969407 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2056970995 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2056974171 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2058826017 entPhysicalName: fan0 SAT200/FT0/SP
entPhysicalIndex: 2059653651 entPhysicalName: power-module SAT200/PM1/SP
entPhysicalIndex: 2060396648 entPhysicalName: slot SAT200/PM1
entPhysicalIndex: 2060660304 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2060661988 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2060663608 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2069669155 entPhysicalName: slot SAT200/FT1
entPhysicalIndex: 2070224949 entPhysicalName: speed SAT200/FT0/SP
entPhysicalIndex: 2072304692 entPhysicalName: fan2 SAT200/FT1/SP
entPhysicalIndex: 2072572375 entPhysicalName: speed SAT200/FT0/SP
entPhysicalIndex: 2072976834 entPhysicalName: speed SAT200/FT1/SP
entPhysicalIndex: 2073746956 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2073748544 entPhysicalName: temperature SAT200/RSP0/CPU0
entPhysicalIndex: 2073751848 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2075603598 entPhysicalName: module SAT200/FT0/SP
entPhysicalIndex: 2075605186 entPhysicalName: fan3 SAT200/FT0/SP
entPhysicalIndex: 2077439601 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2077441157 entPhysicalName: voltage SAT200/RSP0/CPU0
entPhysicalIndex: 2077927568 entPhysicalName: voltage SAT200/RSP0/CPU0
```

